

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	11910	desulfuriz\$6 desulfuris\$6	US-PGPUB; USPAT	OR	ON	2007/02/23 17:04
L2	859666	absorb\$4 adsorb\$4	US-PGPUB; USPAT	OR	ON	2007/02/23 17:05
L3	3360	temperature near4 swing	US-PGPUB; USPAT	OR	ON	2007/02/23 17:12
L4	322	1 and 2 and 3	US-PGPUB; USPAT	OR	ON	2007/02/23 17:07
L5	255688	(sulfur sulphur)	US-PGPUB; USPAT	OR	ON	2007/02/23 17:06
L6	340358	(sulfur sulphur sulfide)	US-PGPUB; USPAT	OR	ON	2007/02/23 17:06
L7	314	4 and 6	US-PGPUB; USPAT	OR	ON	2007/02/23 17:07
L8	2064	temperature adj swing	US-PGPUB; USPAT	OR	ON	2007/02/23 17:13
L9	44	7 and 8	US-PGPUB; USPAT	OR	ON	2007/02/23 18:43
L10	503	multi-bed	US-PGPUB; USPAT	OR	ON	2007/02/23 18:44
L11	133	multibed	US-PGPUB; USPAT	OR	ON	2007/02/23 18:44
L12	512	multi adj bed	US-PGPUB; USPAT	OR	ON	2007/02/23 18:44
L13	24	(10 11 12) same (1)	US-PGPUB; USPAT	OR	ON	2007/02/23 18:45
L14	24	13 not 9	US-PGPUB; USPAT	OR	ON	2007/02/23 18:51
L15	1	"3753894".pn.	US-PGPUB; USPAT	OR	ON	2007/02/23 18:52
S1	24	((("6254839")   ("6316134")   ("6280864")   ("4657664")   ("6187465")   ("4325811")   ("4238366")   ("4183805")   ("3948754")   ("3617485")   ("3558473")   ("6331366")   ("6299994")   ("6221280")   ("6210821")   ("6162267")   ("6120923")   ("6090312")   ("5938800")   ("5573866")   ("5308456")   ("5213912")   ("4976747")   ("3655448"))).pn.	US-PGPUB; USPAT	OR	ON	2007/02/06 14:21
S2	0	"(2002/0041986)"	US-PGPUB; USPAT	OR	ON	2007/02/06 12:15

## EAST Search History

S3	6	((("20020041986")   ("20020041842")   ("20010004500")   ("20020071976")   ("20010020596")   ("20020031690"))).pn.	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/06 13:18
S4	1	("3558473").URPN.	USPAT	OR	ON	2007/02/06 13:38
S5	20	("1728732"   "3132087"   "3140251"   "3236762"   "3410787").PN. OR ("3617485"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/06 13:40
S6	233271	catalytic\$5	US-PGPUB; USPAT	OR	ON	2007/02/06 15:23
S7	119613	cracking	US-PGPUB; USPAT	OR	ON	2007/02/06 14:22
S8	11762	S6 near\$ S7	US-PGPUB; USPAT	OR	ON	2007/02/06 14:23
S9	11873	desulfuriz\$6 desulfuris\$6	US-PGPUB; USPAT	OR	ON	2007/02/06 14:24
S10	735458	hydrogen ("H.sub.2")	US-PGPUB; USPAT	OR	ON	2007/02/06 14:25
S11	71442	reform\$6	US-PGPUB; USPAT	OR	ON	2007/02/06 17:58
S12	1718857	processing processor	US-PGPUB; USPAT	OR	ON	2007/02/06 14:27
S13	2159	S8 and S9 and S10	US-PGPUB; USPAT	OR	ON	2007/02/06 14:27
S14	1819	S13 and (S11 or S12)	US-PGPUB; USPAT	OR	ON	2007/02/06 14:30
S15	2311879	separate separation separating	US-PGPUB; USPAT	OR	ON	2007/02/06 14:32
S16	254560	sulphur sulfur	US-PGPUB; USPAT	OR	ON	2007/02/06 14:32
S17	15861	S15 same S16	US-PGPUB; USPAT	OR	ON	2007/02/06 14:32
S18	774	S14 and S17	US-PGPUB; USPAT	OR	ON	2007/02/06 14:47
S19	74134	distill distillate distilling	US-PGPUB; USPAT	OR	ON	2007/02/06 14:47
S20	537	S18 and S19	US-PGPUB; USPAT	OR	ON	2007/02/06 14:47
S21	10432	catalytic adj1 cracking	US-PGPUB; USPAT	OR	ON	2007/02/06 15:23
S22	490	S20 and S21	US-PGPUB; USPAT	OR	ON	2007/02/06 15:25

## EAST Search History

S23	3876	fractionator	US-PGPUB; USPAT	OR	ON	2007/02/06 15:48
S24	196	S22 and S23	US-PGPUB; USPAT	OR	ON	2007/02/06 15:49
S25	160	S24 and S11	US-PGPUB; USPAT	OR	ON	2007/02/06 15:50
S26	57132	fractionator fractionating fractionation	US-PGPUB; USPAT	OR	ON	2007/02/06 15:49
S27	342	S22 and S26	US-PGPUB; USPAT	OR	ON	2007/02/06 15:49
S28	274	S27 and S11	US-PGPUB; USPAT	OR	ON	2007/02/06 15:50
S29	9314	hydrocracking	US-PGPUB; USPAT	OR	ON	2007/02/06 15:52
S30	62	S28 not S29	US-PGPUB; USPAT	OR	ON	2007/02/06 15:52
S31	8625	reformer	US-PGPUB; USPAT	OR	ON	2007/02/06 17:59
S32	1722862	S12 or S31	US-PGPUB; USPAT	OR	ON	2007/02/06 18:02
S33	258	S28 and S32	US-PGPUB; USPAT	OR	ON	2007/02/06 18:02
S34	139	S33 and S31	US-PGPUB; USPAT	OR	ON	2007/02/06 18:02
S35	510	208/57.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/07 11:45
S36	11873	desulfuriz\$6 desulfuris\$6	US-PGPUB; USPAT	OR	ON	2007/02/07 11:45
S37	71442	reform\$6	US-PGPUB; USPAT	OR	ON	2007/02/07 11:45
S38	10432	catalytic adj1 cracking	US-PGPUB; USPAT	OR	ON	2007/02/10 17:21
S39	25	S35 and S36 and S37 and S38	US-PGPUB; USPAT	OR	ON	2007/02/07 11:46
S40	57132	fractionator fractionating fractionation	US-PGPUB; USPAT	OR	ON	2007/02/07 11:46
S41	2311879	separate separation separating	US-PGPUB; USPAT	OR	ON	2007/02/07 11:47
S42	23	S39 and (S40 or S41)	US-PGPUB; USPAT	OR	ON	2007/02/07 11:47

## EAST Search History

S43	23	("3098029"   "3172842"   "3175966"   "3533938").PN. OR ("3671419").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/07 12:02
S44	4	S43 and S36 and S37	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/07 12:06
S45	20	("2998380"   "3050457"   "3329627"   "3537977"   "3546109"   "3607127"   "3671419"   "3671422"   "3712800"   "3726789"   "3732085").PN. OR ("3862899").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/07 12:04
S46	2	S45 and S36 and S37	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/07 12:06
S47	11159	catalytic adj1 crack\$4	US-PGPUB; USPAT	OR	ON	2007/02/10 17:21
S48	10563	vaporizer	US-PGPUB; USPAT	OR	ON	2007/02/10 17:21
S49	9	S47 same S48	US-PGPUB; USPAT	OR	ON	2007/02/10 17:21
S50	207083	alumina	US-PGPUB; USPAT	OR	ON	2007/02/16 14:52
S52	464561	catalyst catalytic	US-PGPUB; USPAT	OR	ON	2007/02/16 14:52
S53	119889	cracking	US-PGPUB; USPAT	OR	ON	2007/02/16 14:53
S54	17371	S52 with S53	US-PGPUB; USPAT	OR	ON	2007/02/16 14:53
S55	11617	S50 and S54	US-PGPUB; USPAT	OR	ON	2007/02/16 14:53
S56	121953	manganese	US-PGPUB; USPAT	OR	ON	2007/02/16 14:53
S57	2547	S55 and S56	US-PGPUB; USPAT	OR	ON	2007/02/16 14:53
S59	1641138	weight wt	US-PGPUB; USPAT	OR	ON	2007/02/16 14:54
S60	52651	S50 same S59	US-PGPUB; USPAT	OR	ON	2007/02/16 14:54
S61	1605	S57 and S60	US-PGPUB; USPAT	OR	ON	2007/02/16 14:58
S62	12311	coke and (sulfur sulphur)	US-PGPUB; USPAT	OR	ON	2007/02/23 17:06
S63	680	S61 and S62	US-PGPUB; USPAT	OR	ON	2007/02/16 15:00

## EAST Search History

S64	307270	fuel	US-PGPUB; USPAT	OR	ON	2007/02/16 15:00
S65	71716	reform\$6	US-PGPUB; USPAT	OR	ON	2007/02/16 15:01
S66	269	S63 and S64 and S65	US-PGPUB; USPAT	OR	ON	2007/02/16 15:01
S67	11896	desulfuriz\$6 desulfuris\$6	US-PGPUB; USPAT	OR	ON	2007/02/16 21:39
S68	858109	absorb\$4 adsorb\$4	US-PGPUB; USPAT	OR	ON	2007/02/16 21:40
S69	1721	S67 same S68	US-PGPUB; USPAT	OR	ON	2007/02/16 21:40
S70	464561	catalyst catalytic	US-PGPUB; USPAT	OR	ON	2007/02/16 21:40
S71	119889	cracking	US-PGPUB; USPAT	OR	ON	2007/02/16 21:40
S72	17371	S70 with S71	US-PGPUB; USPAT	OR	ON	2007/02/16 21:41
S73	266	S69 and S72	US-PGPUB; USPAT	OR	ON	2007/02/16 21:41
S74	346521	low adj6 temperature	US-PGPUB; USPAT	OR	ON	2007/02/16 21:42
S75	540255	high adj6 temperature	US-PGPUB; USPAT	OR	ON	2007/02/16 21:42
S76	194301	S74 and S75	US-PGPUB; USPAT	OR	ON	2007/02/16 21:42
S77	78	S73 and S76	US-PGPUB; USPAT	OR	ON	2007/02/16 21:44
S78	9116	synthesis adj gas	US-PGPUB; USPAT	OR	ON	2007/02/16 21:44
S79	737299	hydrogen ("H.sub.2")	US-PGPUB; USPAT	OR	ON	2007/02/16 21:44
S80	75	S77 and (S78 or S79)	US-PGPUB; USPAT	OR	ON	2007/02/16 22:30
S81	75201	S74 near10 S75	US-PGPUB; USPAT	OR	ON	2007/02/16 22:31
S82	165	S67 same S81	US-PGPUB; USPAT	OR	ON	2007/02/16 22:31
S83	91	S67 with S81	US-PGPUB; USPAT	OR	ON	2007/02/16 22:31
S84	3	S80 and S83	US-PGPUB; USPAT	OR	ON	2007/02/16 22:35
S85	3	S73 and S83	US-PGPUB; USPAT	OR	ON	2007/02/16 22:36

## EAST Search History

S86	4	S69 and S71 and S83	US-PGPUB; USPAT	OR	ON	2007/02/16 22:37
S87	48	S69 and S83	US-PGPUB; USPAT	OR	ON	2007/02/16 22:38
S88	609661	shift	US-PGPUB; USPAT	OR	ON	2007/02/16 22:38
S89	13	S87 not S88	US-PGPUB; USPAT	OR	ON	2007/02/16 22:39
S90	18	("3551124"   "3769197"   "3864460"   "3939250"   "4066738"   "4175928"   "4288979"   "4313820"   "4316813"   "4347811").PN. OR ("4884396"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/02/16 22:47
S91	0	"2002/0122965".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/17 13:29
S92	2	"20020122965".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/17 13:29
S93	820140	combustion	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/17 13:34
S94	1090495	catalyst catalytic	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/17 13:35
S95	18409	S93 near10 S94	US-PGPUB; USPAT	OR	ON	2007/02/17 13:39
S96	207083	alumina	US-PGPUB; USPAT	OR	ON	2007/02/17 13:39
S97	812748	copper potassium vanadium	US-PGPUB; USPAT	OR	ON	2007/02/17 13:40
S98	33284	S96 same S97	US-PGPUB; USPAT	OR	ON	2007/02/17 13:40
S99	1742	S95 and S98	US-PGPUB; USPAT	OR	ON	2007/02/17 13:42

## EAST Search History

S10 0	8672	reformer	US-PGPUB; USPAT	OR	ON	2007/02/17 13:43
S10 1	206	S99 and S100	US-PGPUB; USPAT	OR	ON	2007/02/17 13:46
S10 2	17244	combustor combuster	US-PGPUB; USPAT	OR	ON	2007/02/17 13:47
S10 3	61	S101 and S102	US-PGPUB; USPAT	OR	ON	2007/02/17 14:27
S10 4	2095	catalytic adj combustion	US-PGPUB; USPAT	OR	ON	2007/02/17 14:27
S10 5	362	S100 and S104	US-PGPUB; USPAT	OR	ON	2007/02/17 14:28
S10 6	55	S98 and S105	US-PGPUB; USPAT	OR	ON	2007/02/17 14:30
S10 7	41	S106 not S103	US-PGPUB; USPAT	OR	ON	2007/02/17 14:31
S10 8	2	S104 with S96 with S97	US-PGPUB; USPAT	OR	ON	2007/02/17 14:32
S10 9	5	S104 same S96 same S97	US-PGPUB; USPAT	OR	ON	2007/02/17 14:55
S11 0	1559	combustion adj catalyst	US-PGPUB; USPAT	OR	ON	2007/02/17 14:55
S11 1	420	S104 and S110	US-PGPUB; USPAT	OR	ON	2007/02/17 14:55
S11 2	23	S110 same S96 same S97	US-PGPUB; USPAT	OR	ON	2007/02/17 14:57